

FIG. 1

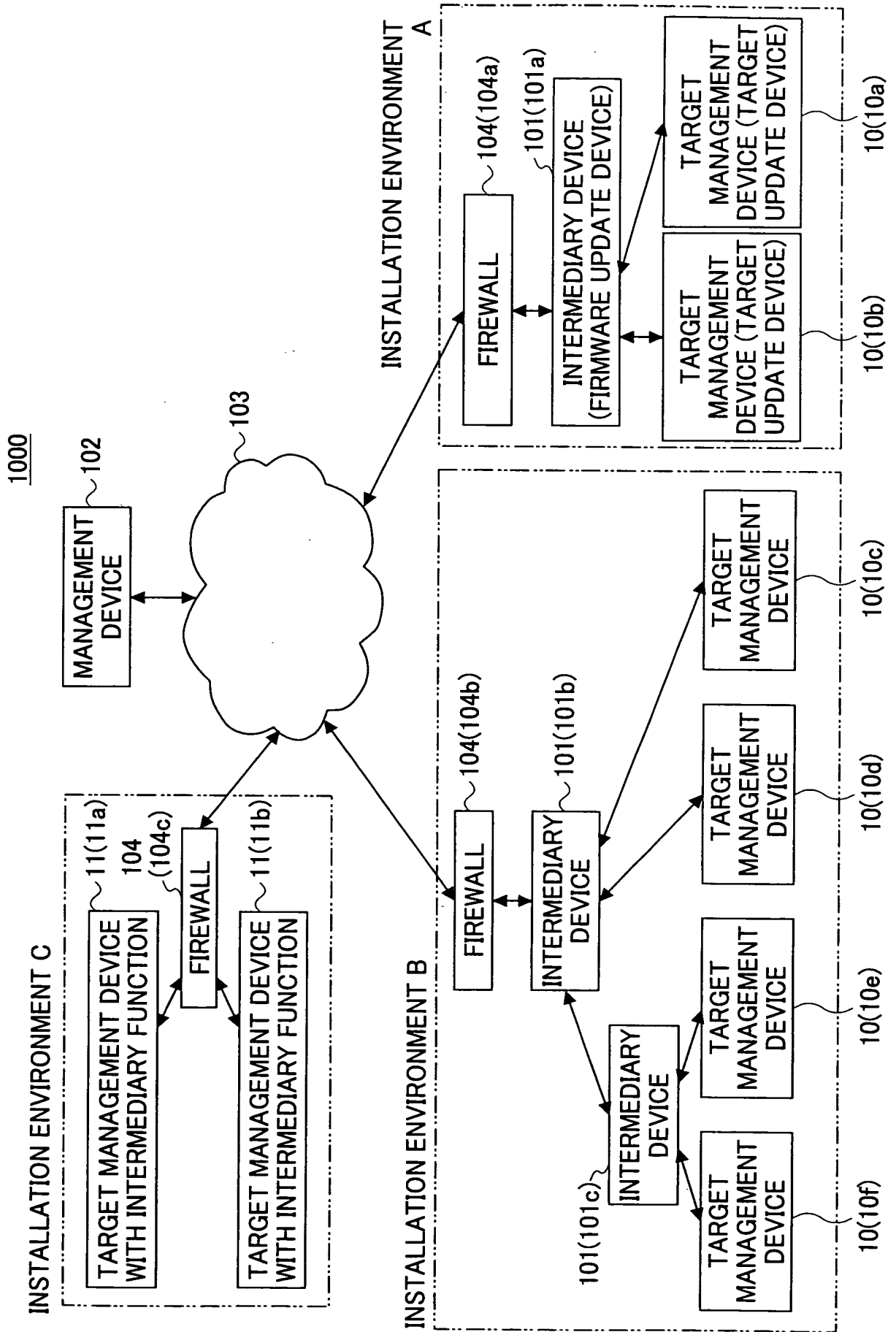


FIG.2A

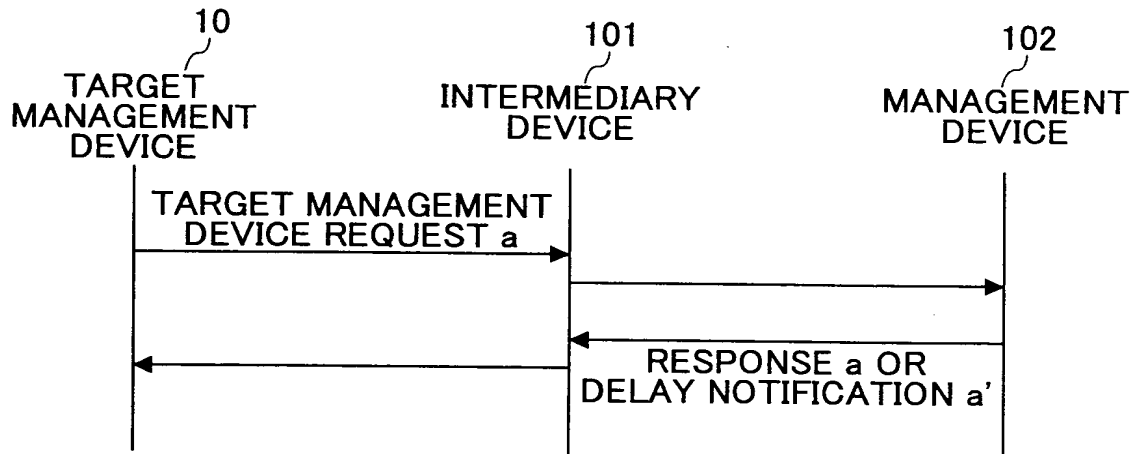


FIG.2B

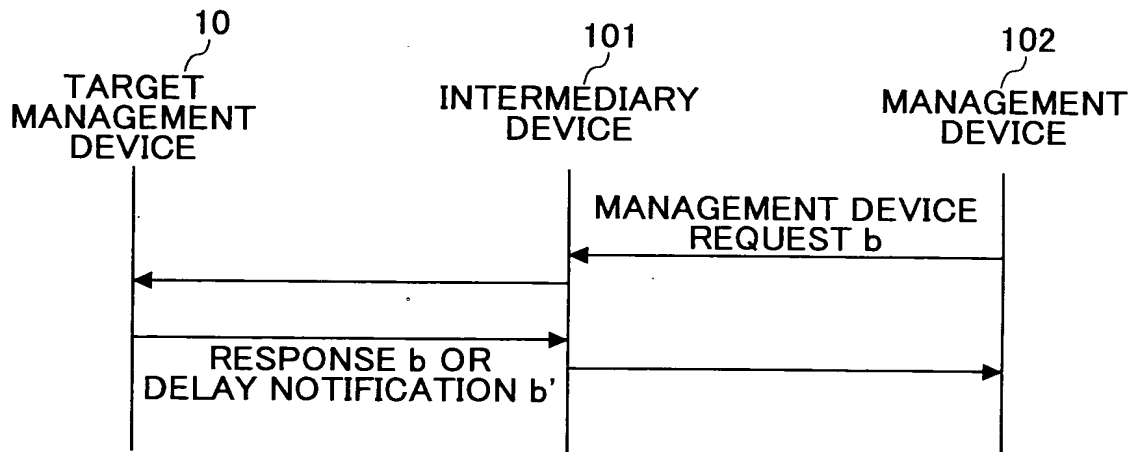


FIG.3

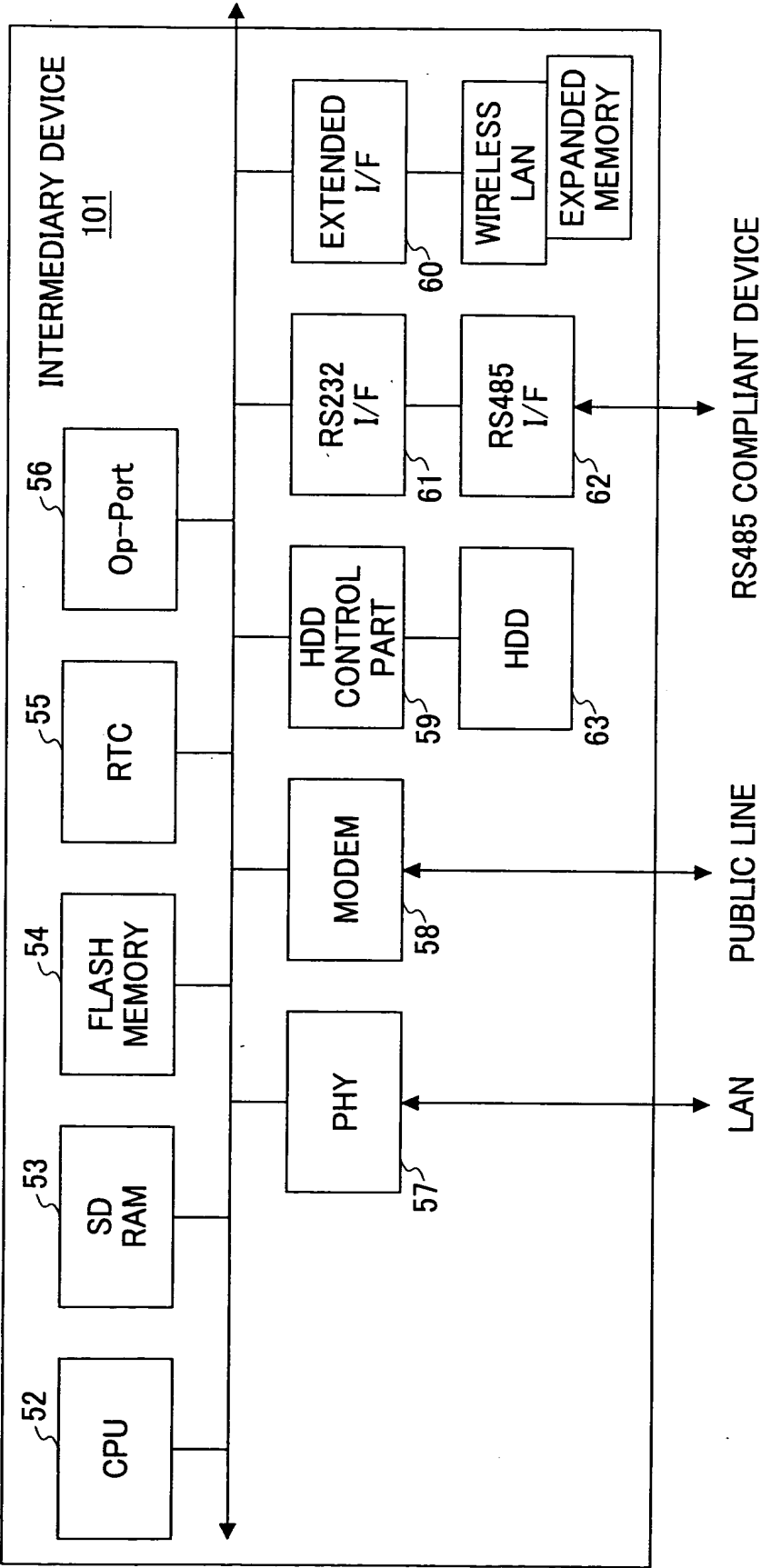


FIG.4

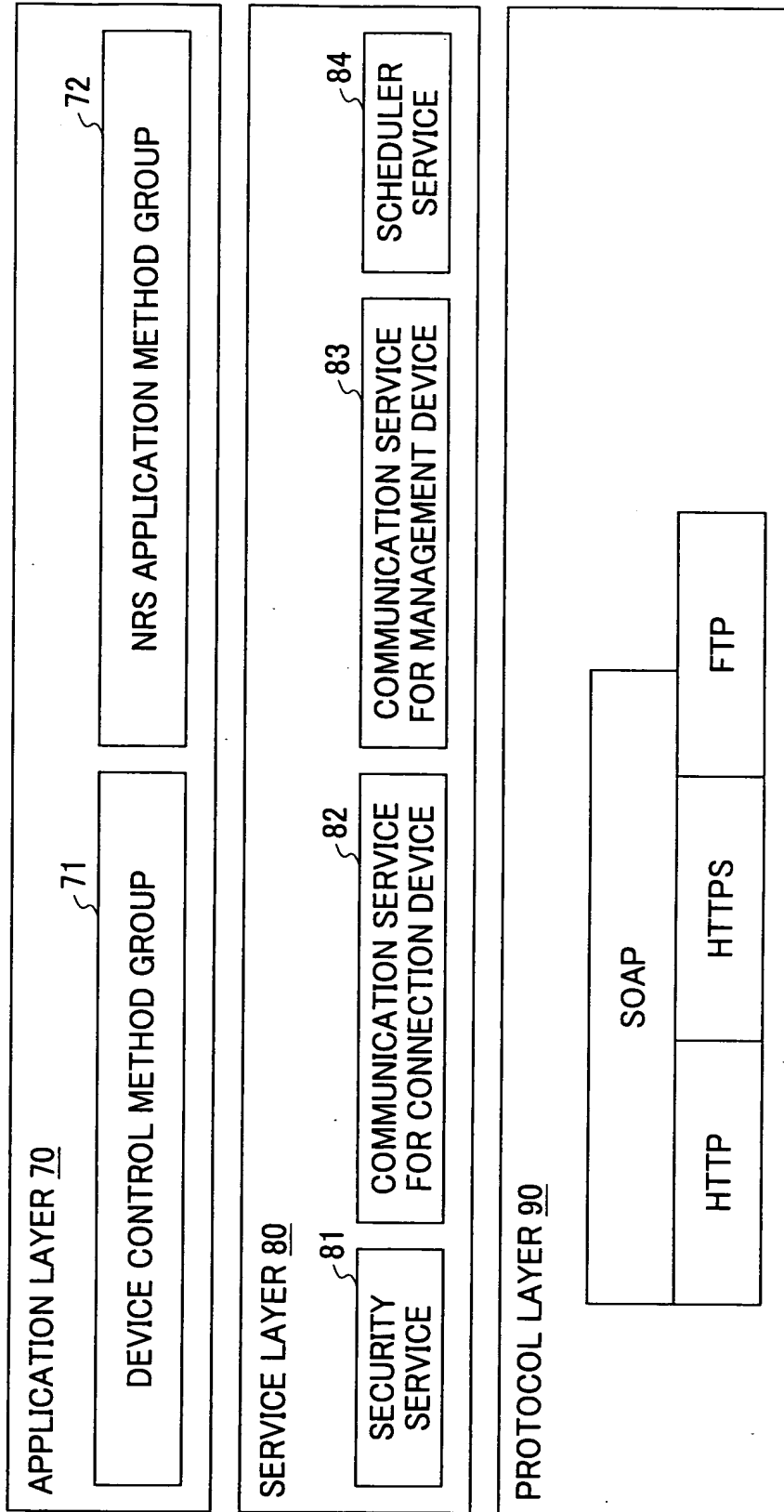


FIG.5

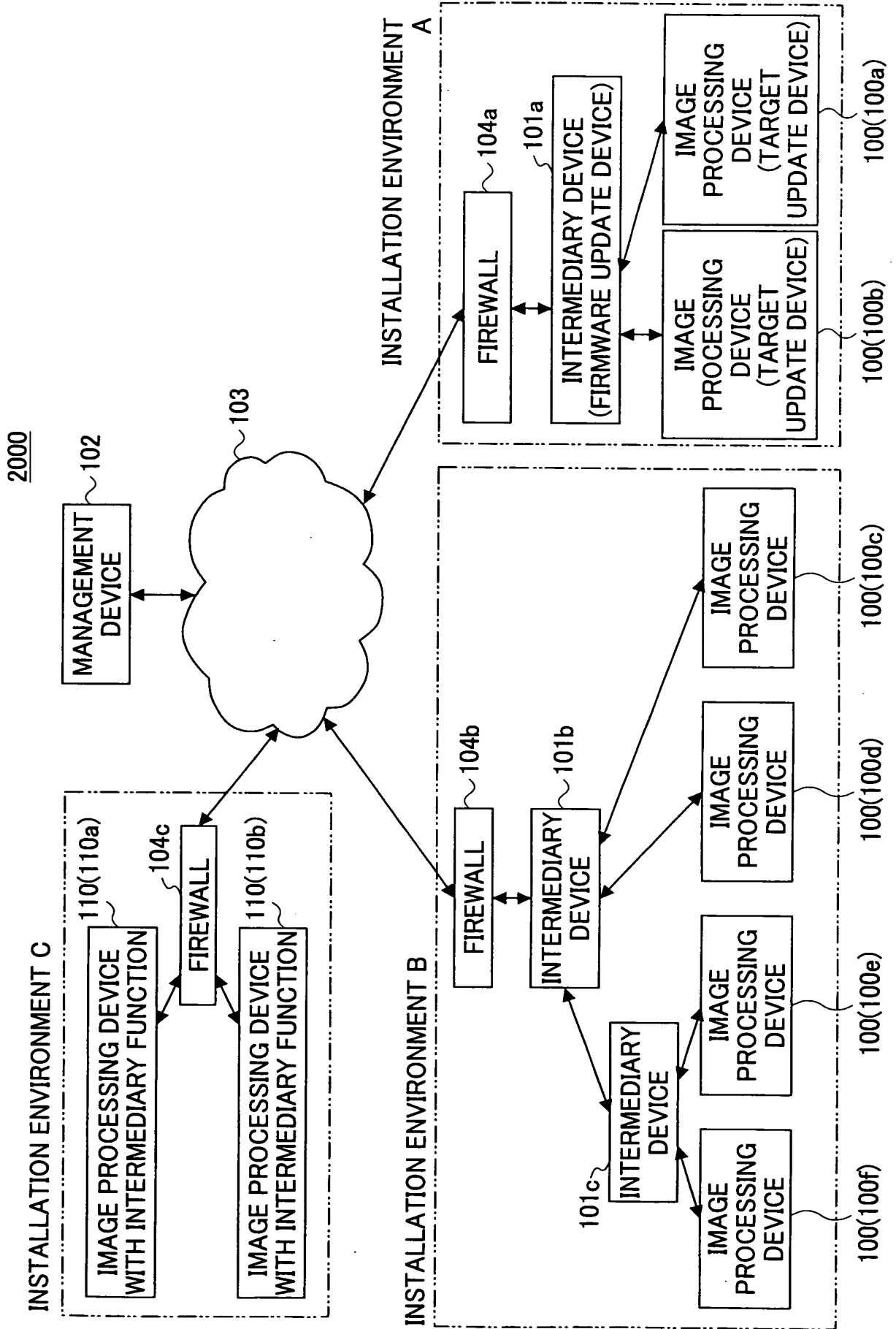


FIG.6

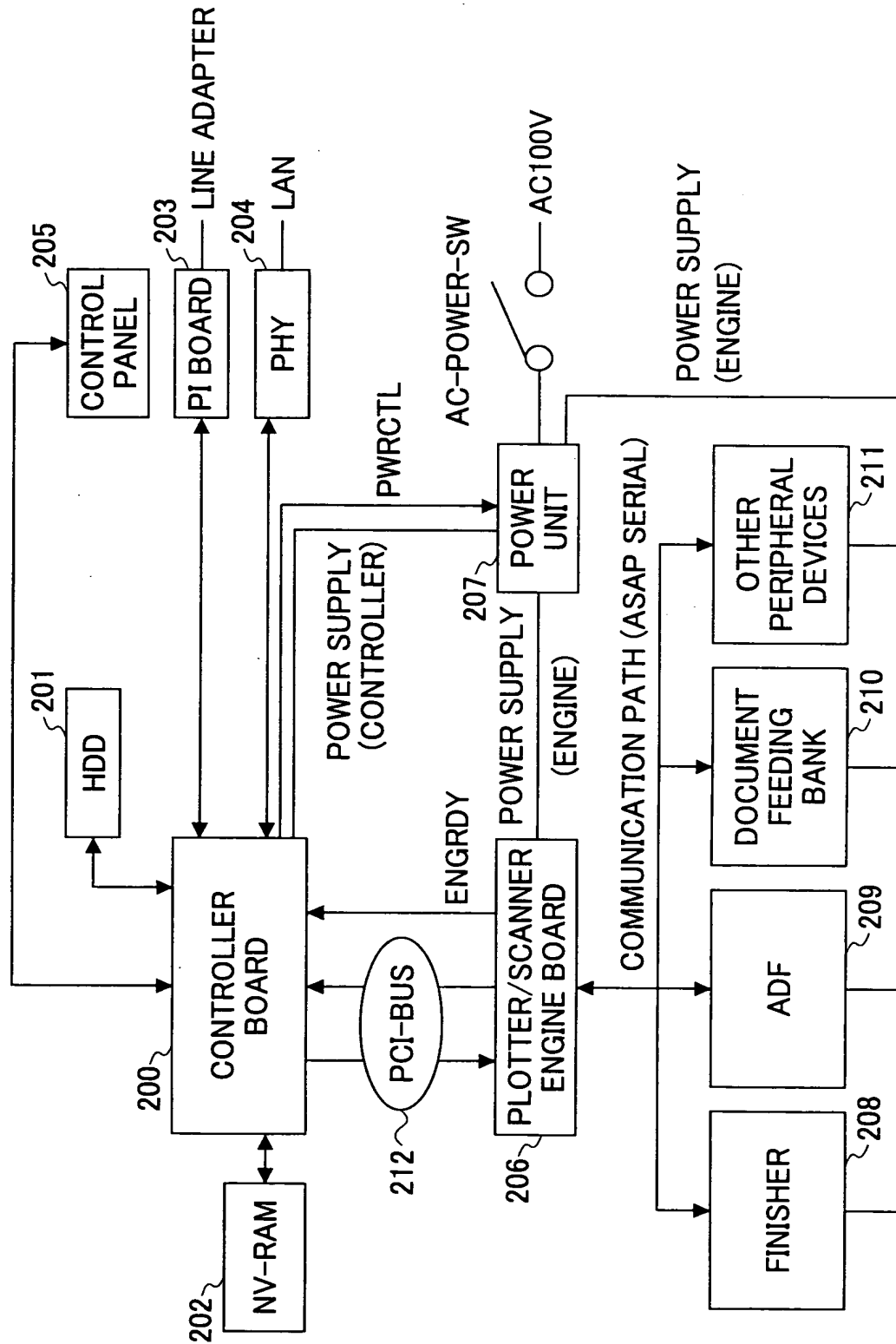
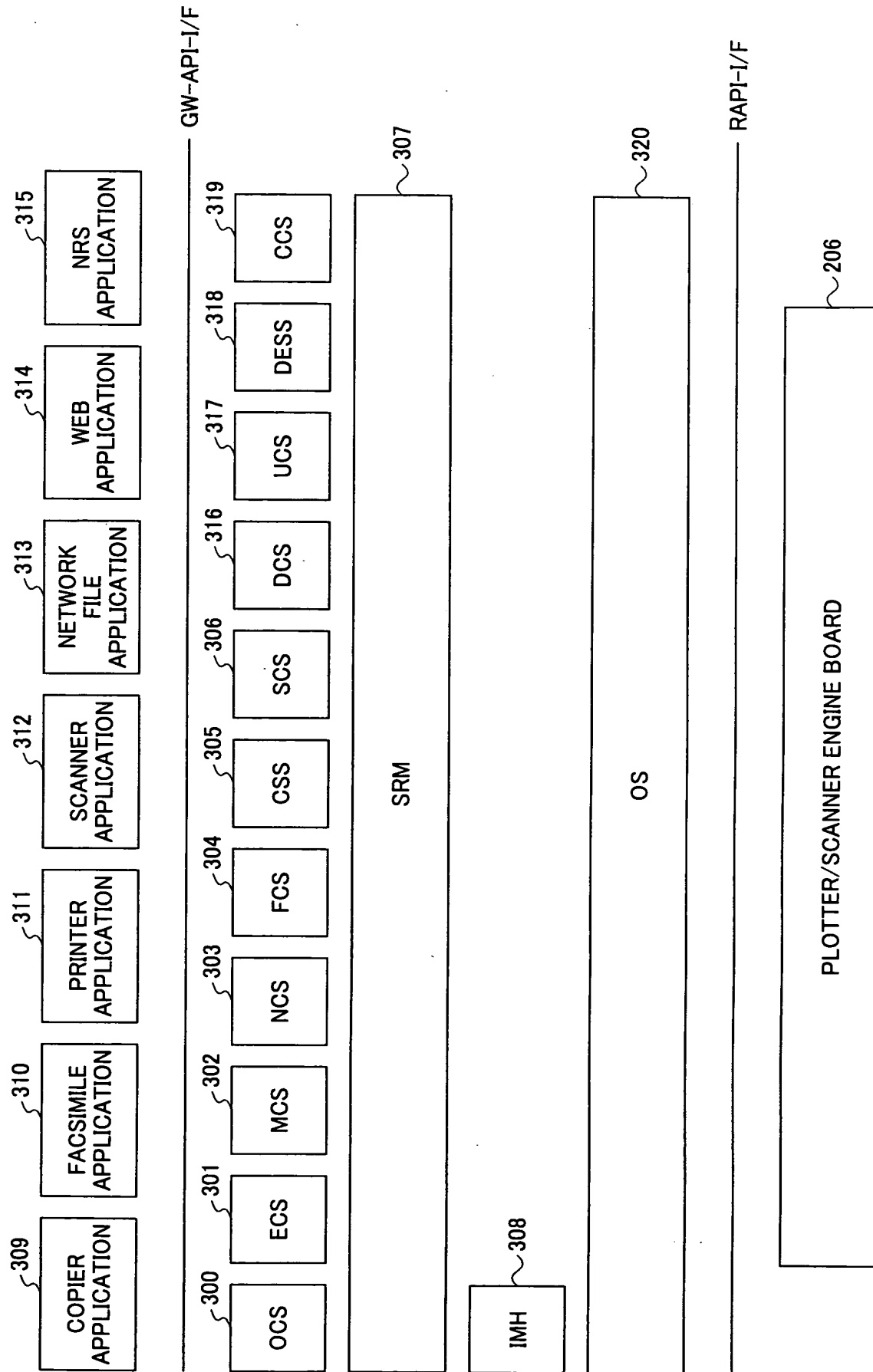


FIG. 7



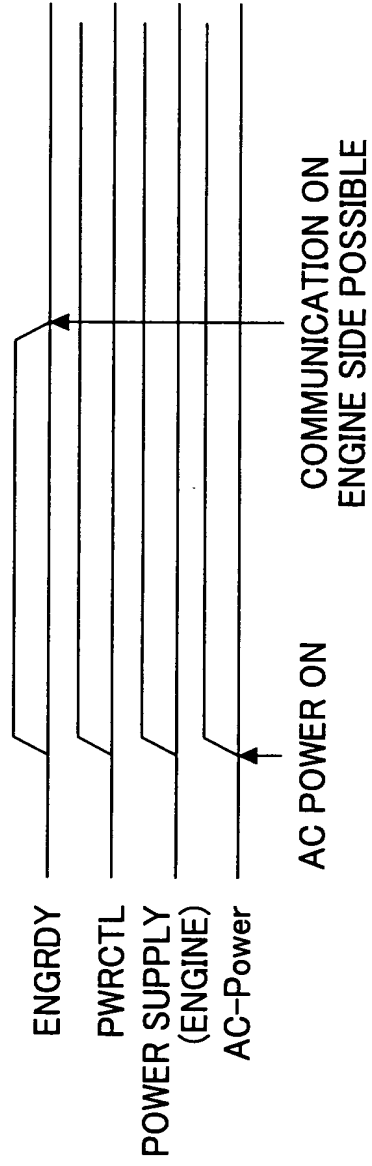


FIG. 8A

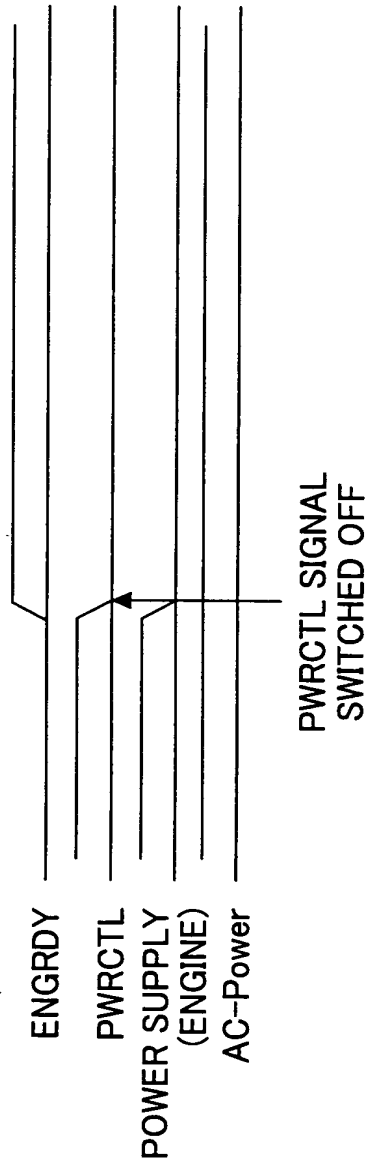


FIG. 8B

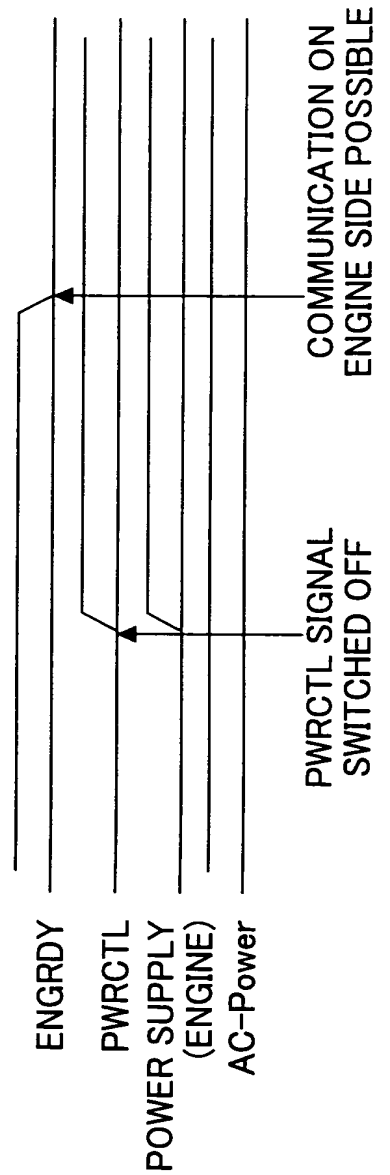


FIG. 8C



FIG.9

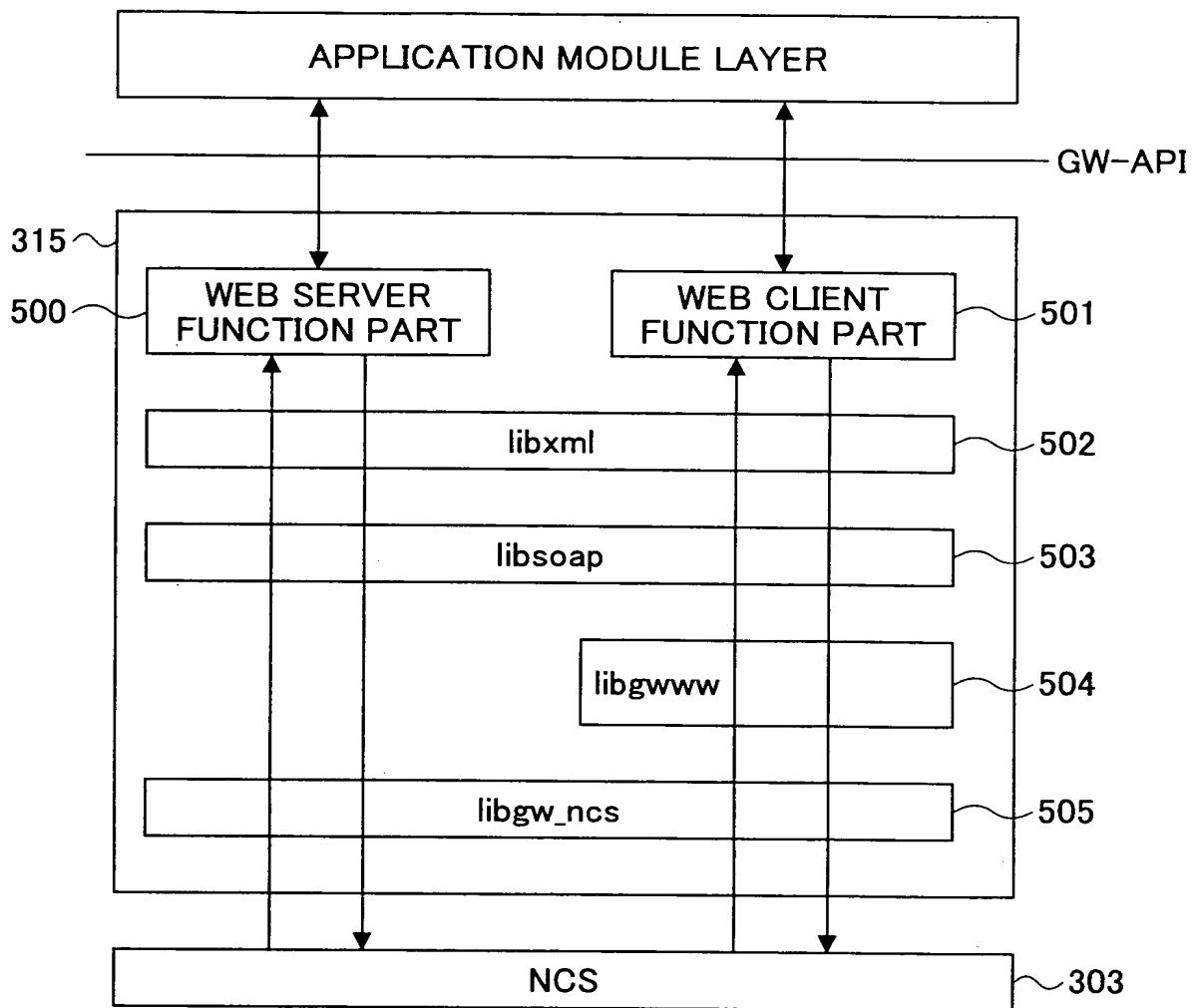


FIG.10

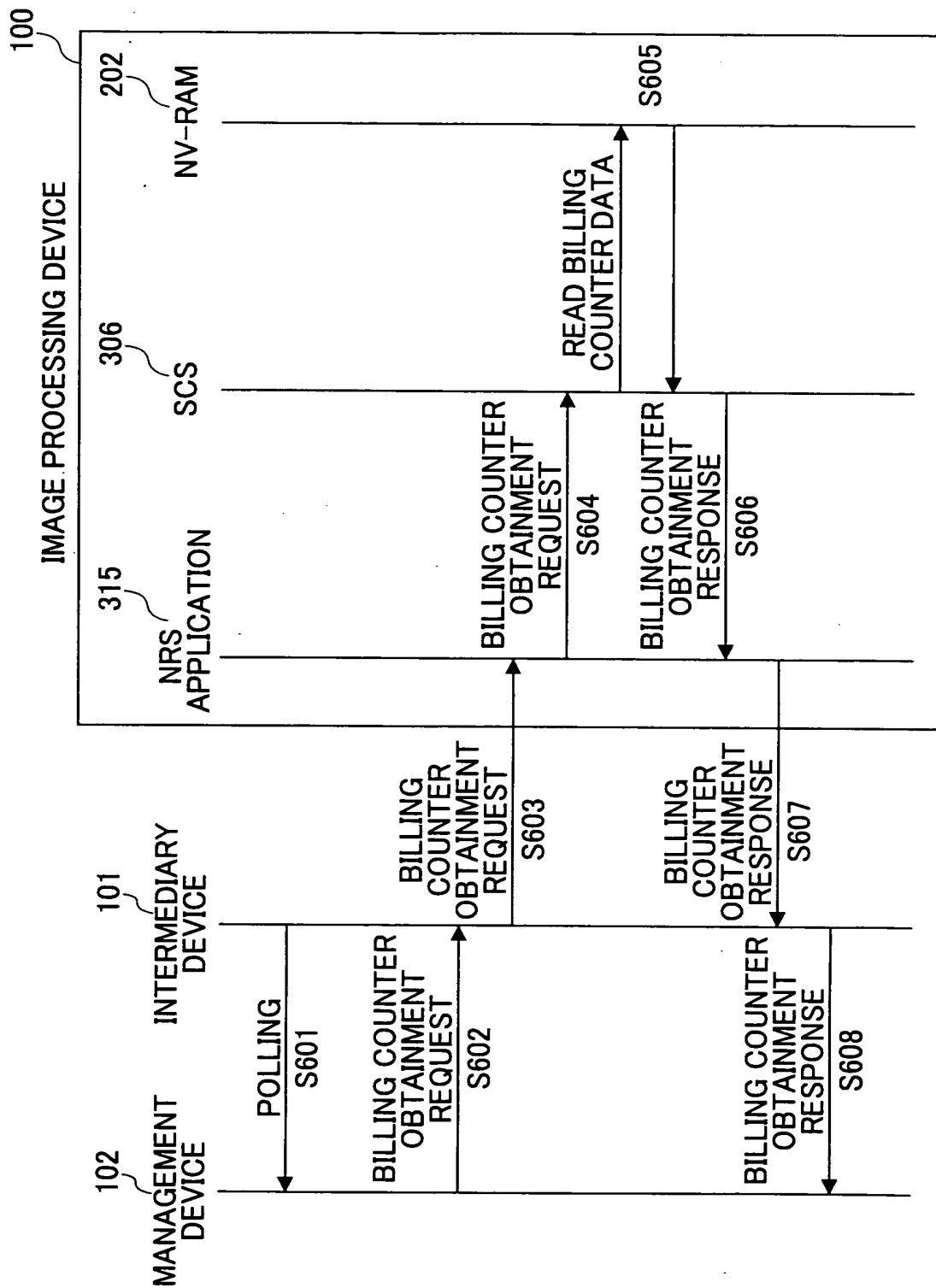


FIG.11

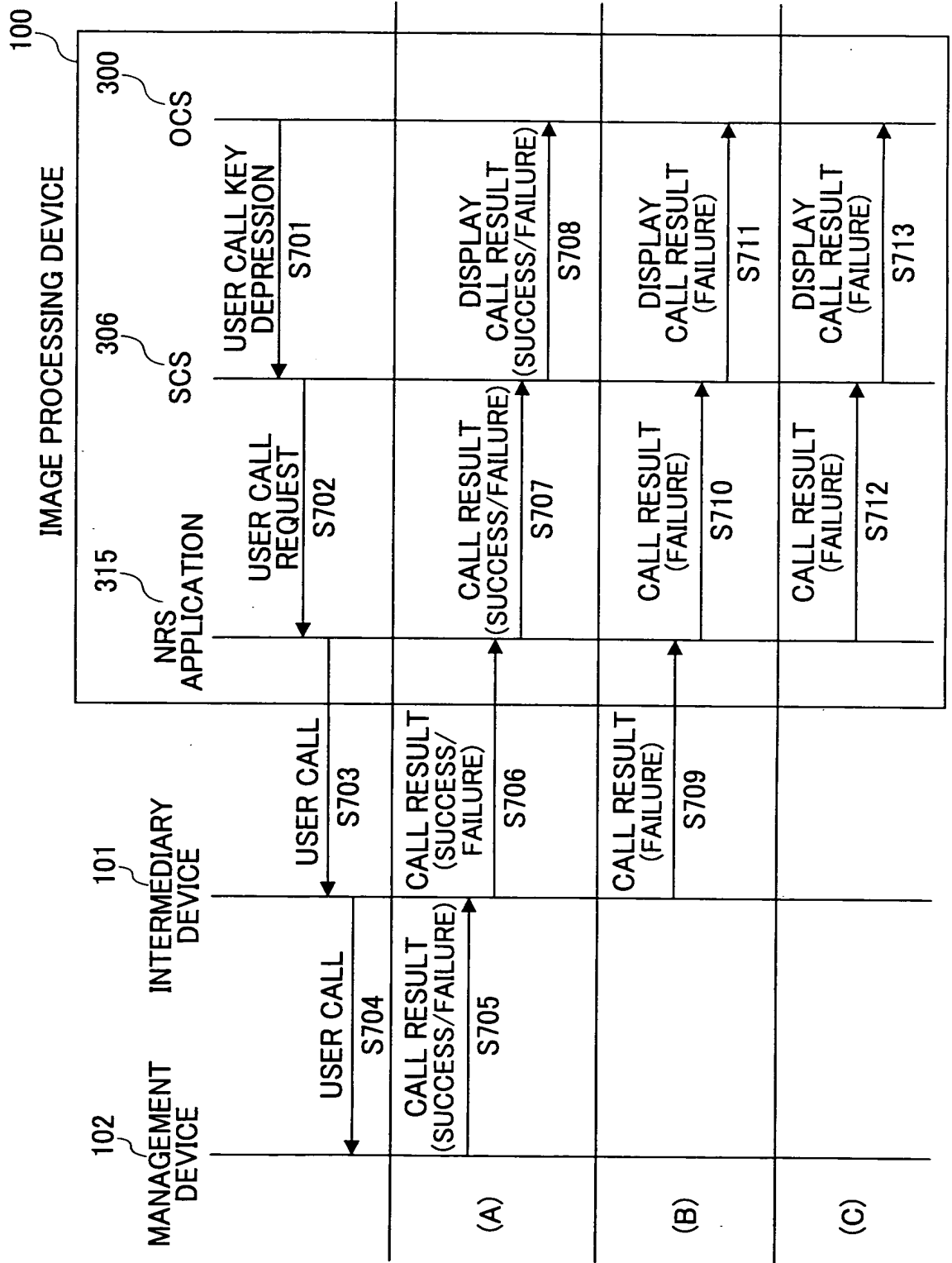


FIG.12

No.	USED/UNUSED	PASSWORD
A	USED	adfgjhuhgk
B	USED	hj75fgukja
C	UNUSED	5rhjdebhha
⋮	⋮	⋮
X	UNUSED	rtgfc6qkqa
Y	UNUSED	6q3fgdysa

FIG.13

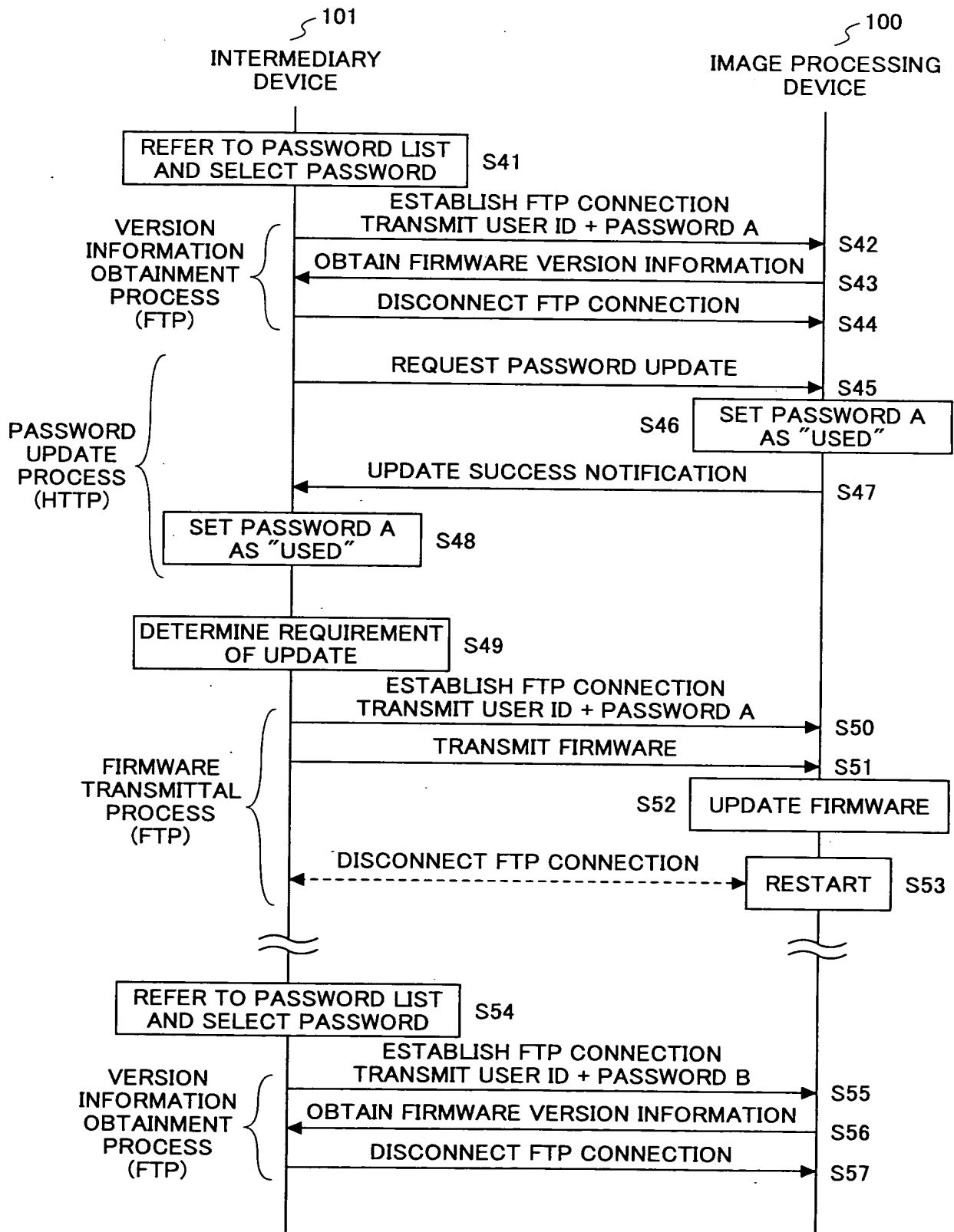


FIG.14

INTERMEDIARY DEVICE  
(SOFTWARE UPDATE DEVICE)

ROOT KEY CERTIFICATE  
PRIVATE KEY A  
PUBLIC KEY CERTIFICATE A

PROCESS OF  
INTERMEDIARY DEVICE

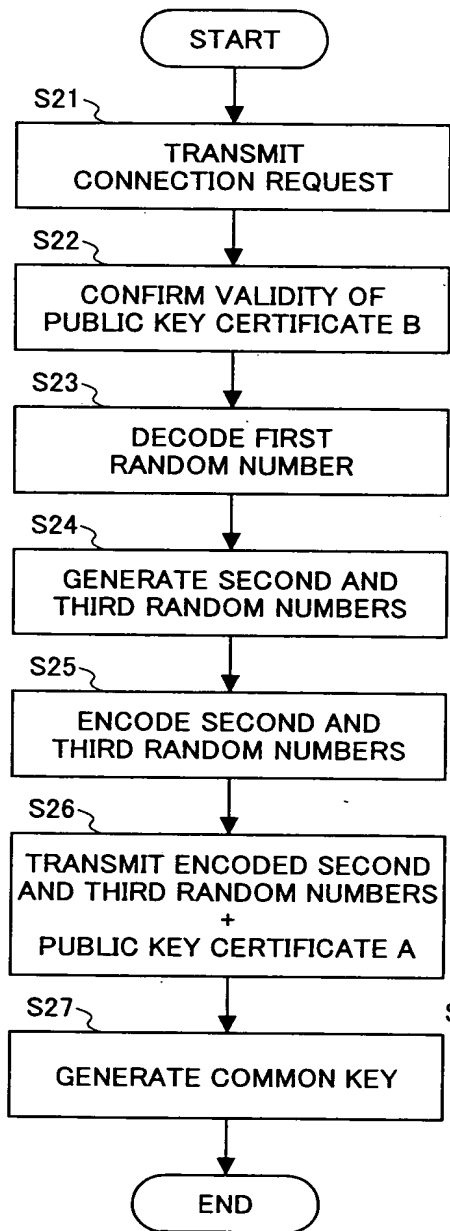


IMAGE PROCESSING DEVICE  
(TARGET UPDATE DEVICE)

ROOT KEY CERTIFICATE  
PRIVATE KEY B  
PUBLIC KEY CERTIFICATE B

PROCESS OF IMAGE  
PROCESSING DEVICE

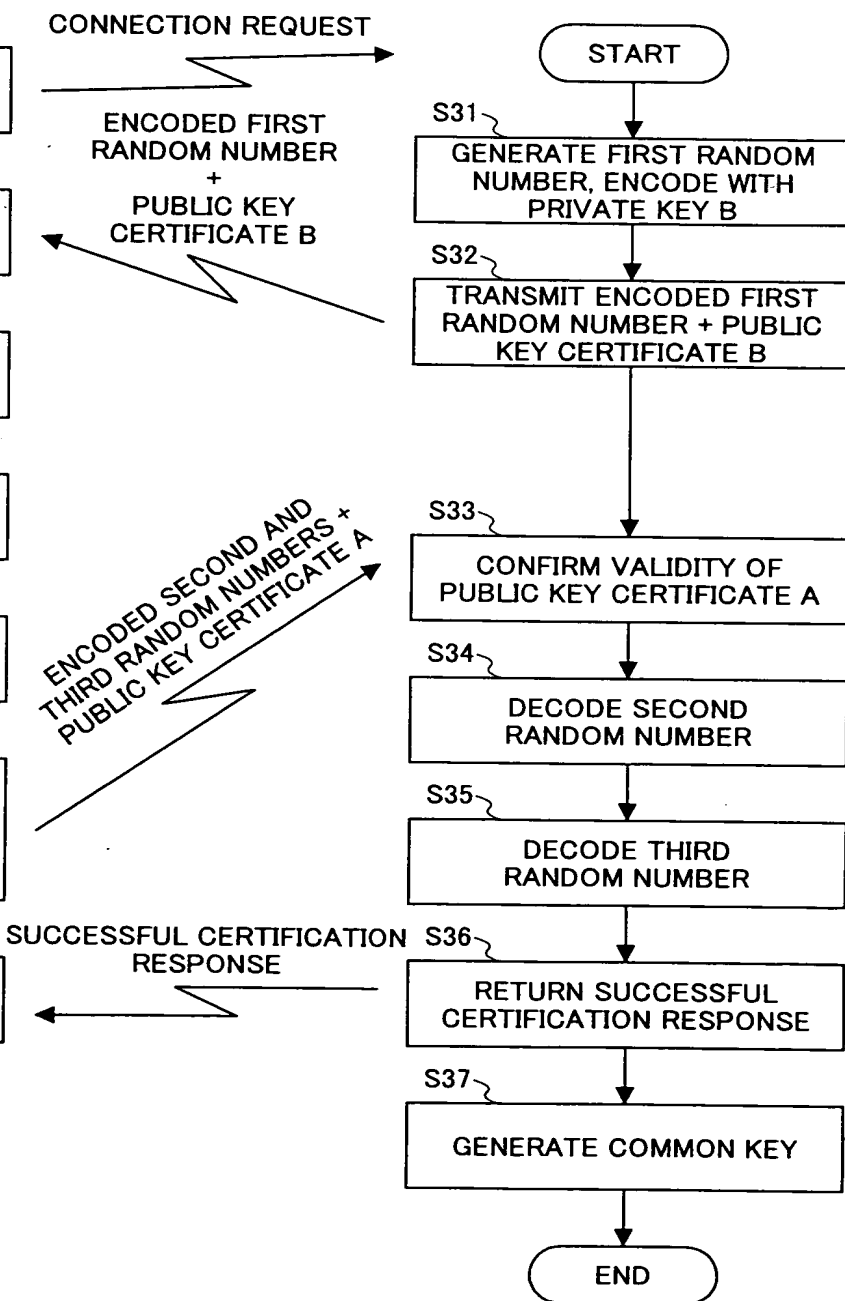


FIG.15

INTERMEDIARY DEVICE  
(SOFTWARE UPDATE DEVICE)

PRIVATE KEY A  
PUBLIC KEY CERTIFICATE A

PROCESS OF  
INTERMEDIARY DEVICE

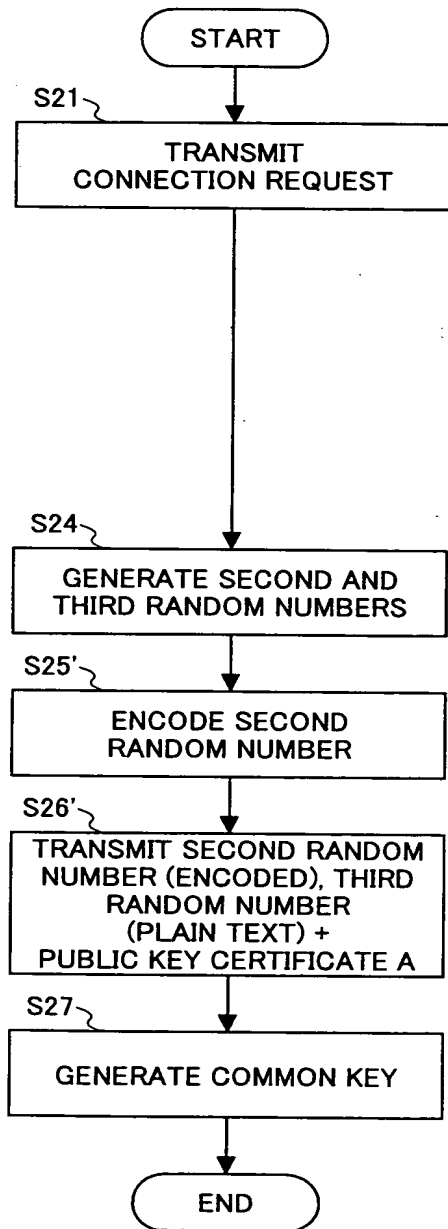


IMAGE PROCESSING DEVICE  
(TARGET UPDATE DEVICE)

ROOT KEY CERTIFICATE

PROCESS OF IMAGE  
PROCESSING DEVICE

CONNECTION REQUEST

FIRST RANDOM NUMBER

SECOND RANDOM NUMBER (ENCODED), THIRD RANDOM NUMBER (PLAIN TEXT) + PUBLIC KEY CERTIFICATE A

SUCCESSFUL  
CERTIFICATION  
RESPONSE

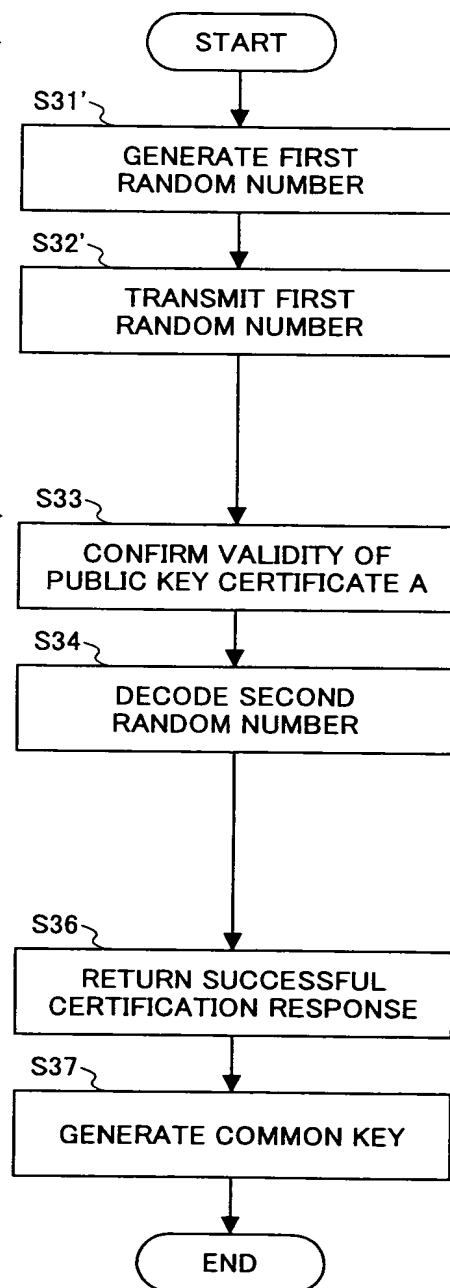


FIG.16

INTERMEDIARY DEVICE  
(SOFTWARE UPDATE DEVICE)

ROOT KEY CERTIFICATE

PROCESS OF  
INTERMEDIARY DEVICE

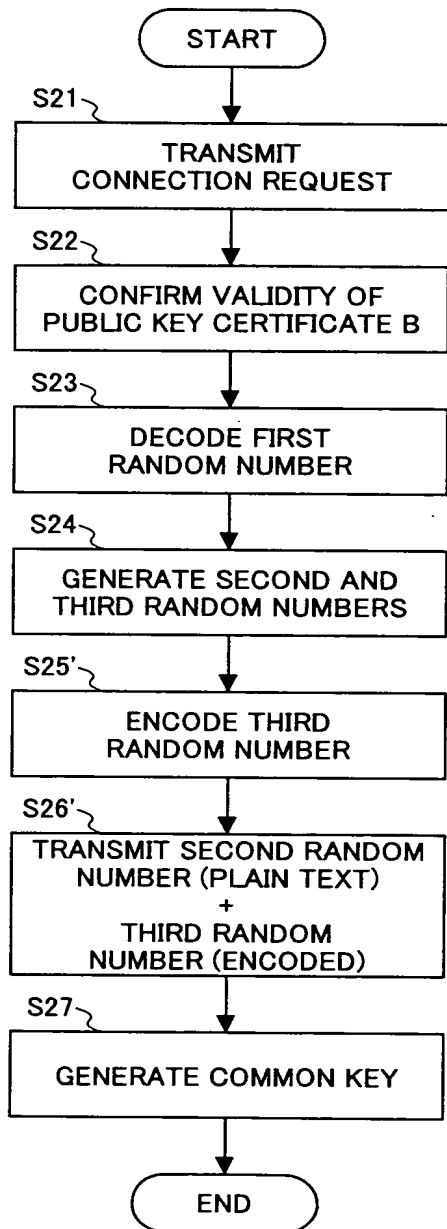


IMAGE PROCESSING DEVICE  
(TARGET UPDATE DEVICE)

PRIVATE KEY B  
PUBLIC KEY CERTIFICATE B

PROCESS OF IMAGE  
PROCESSING DEVICE

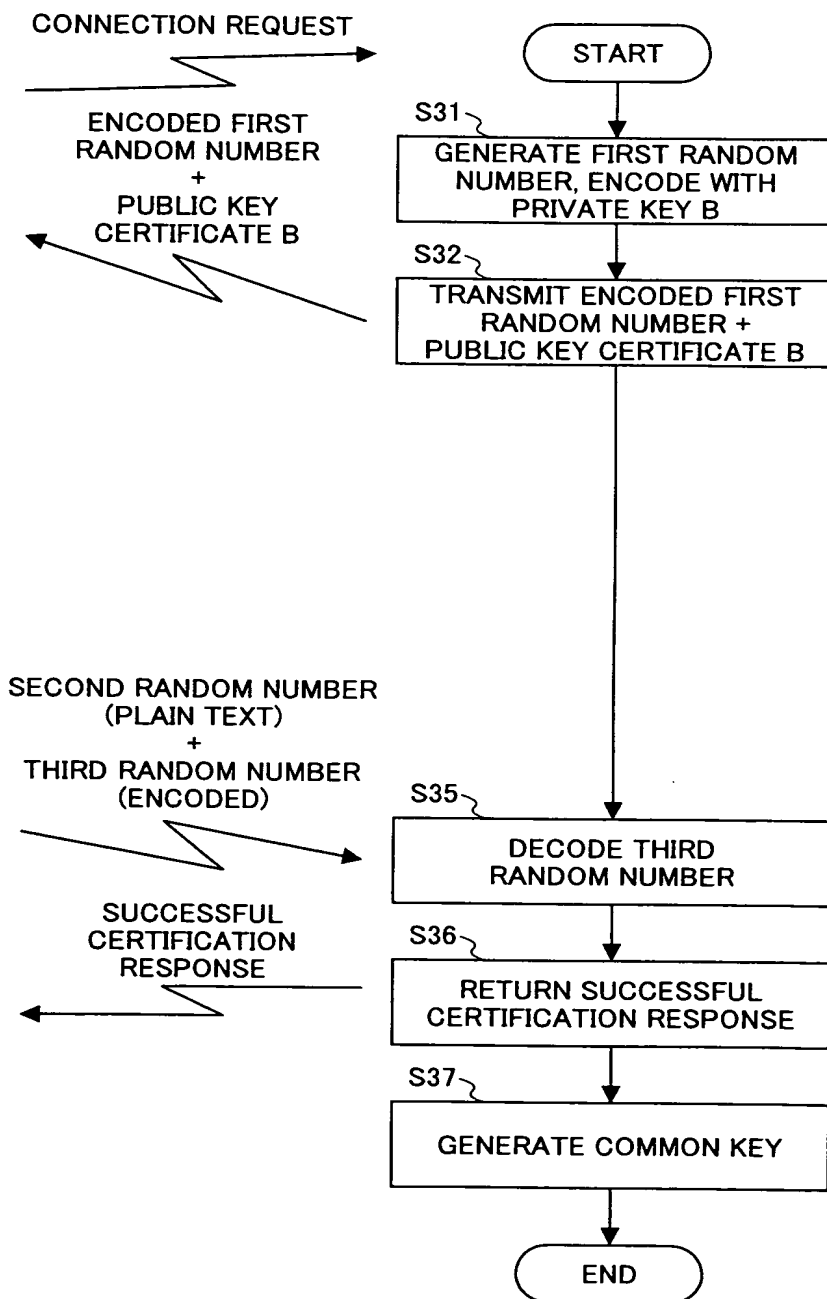




FIG.17

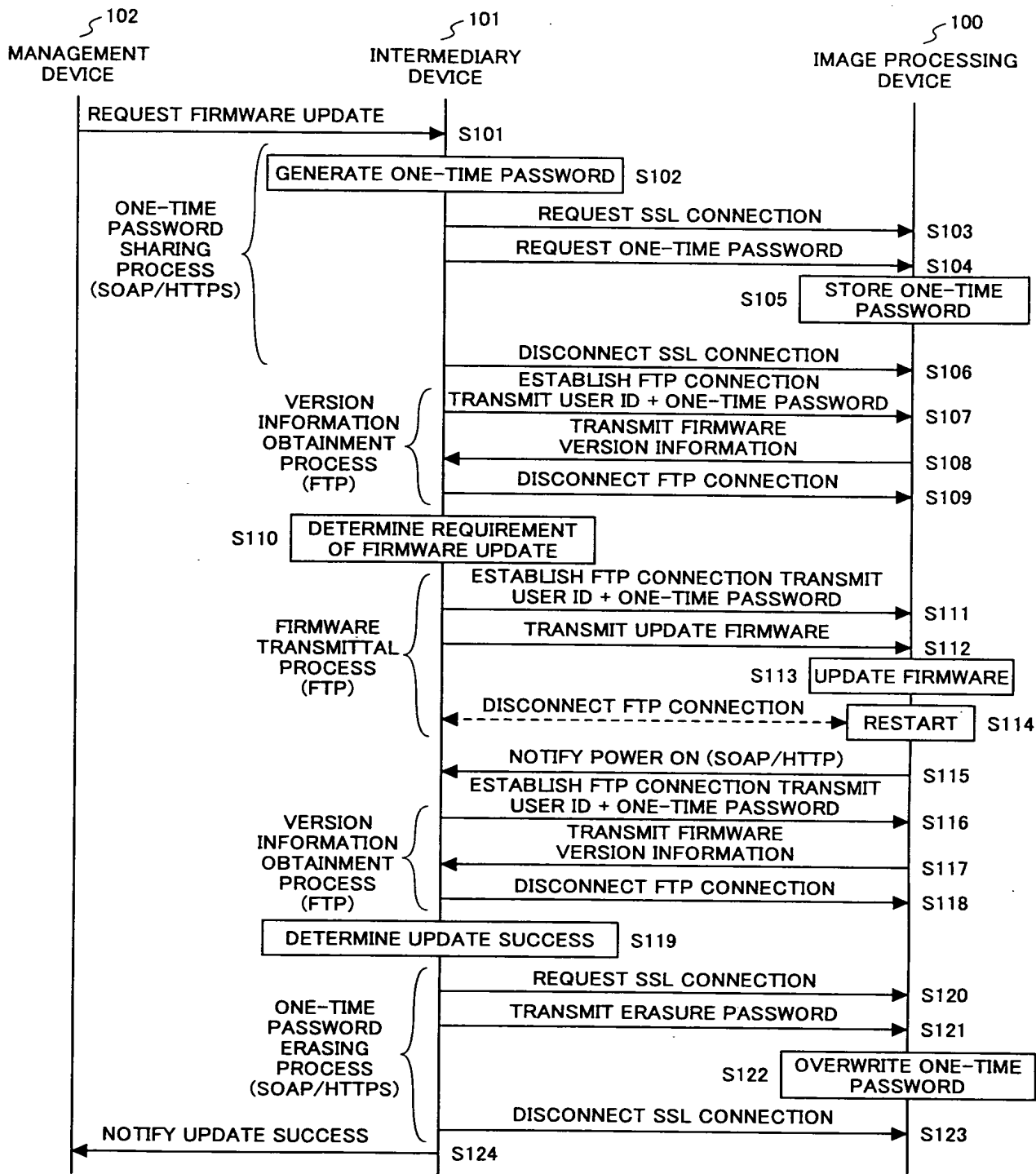


FIG.18

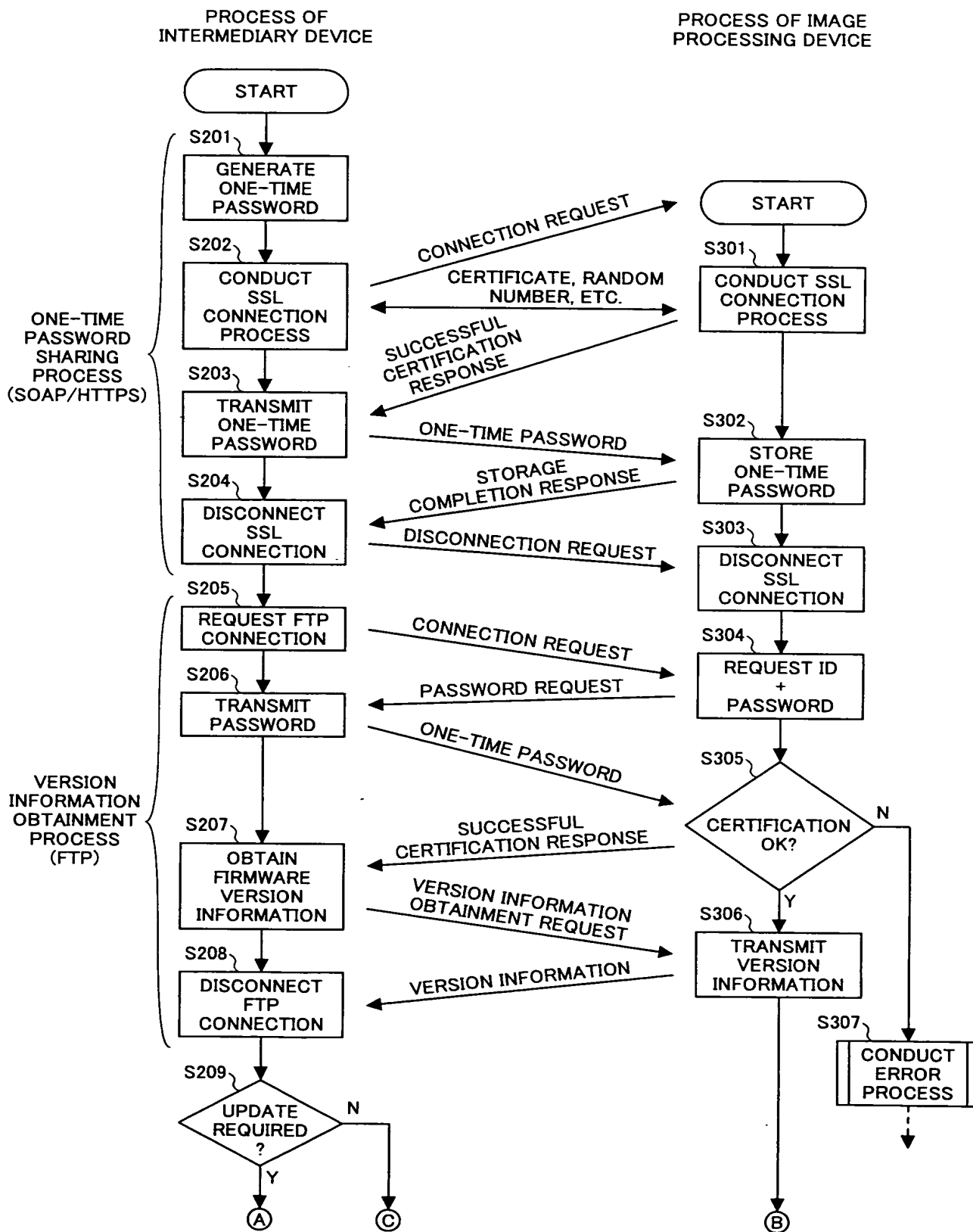


FIG.19

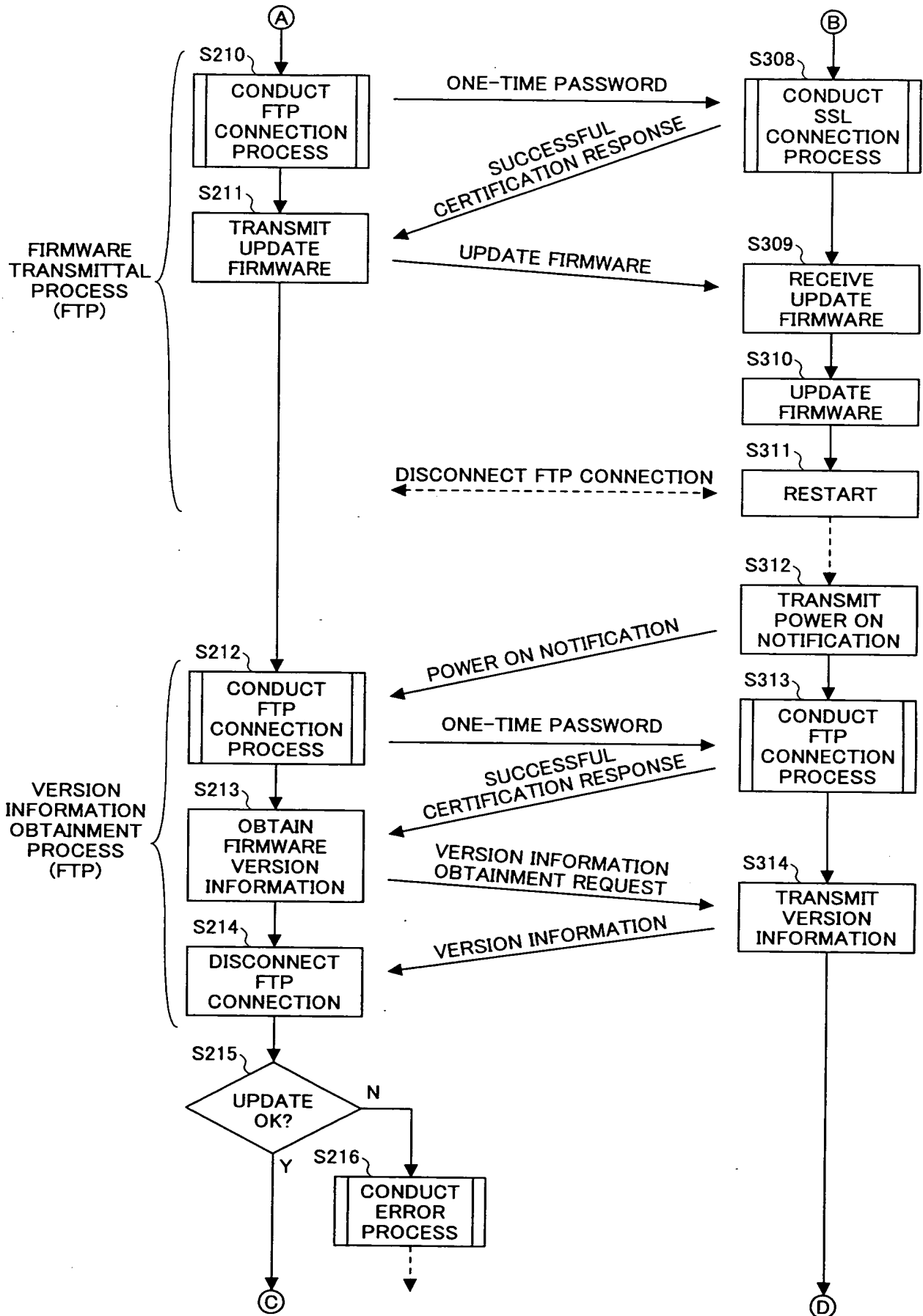
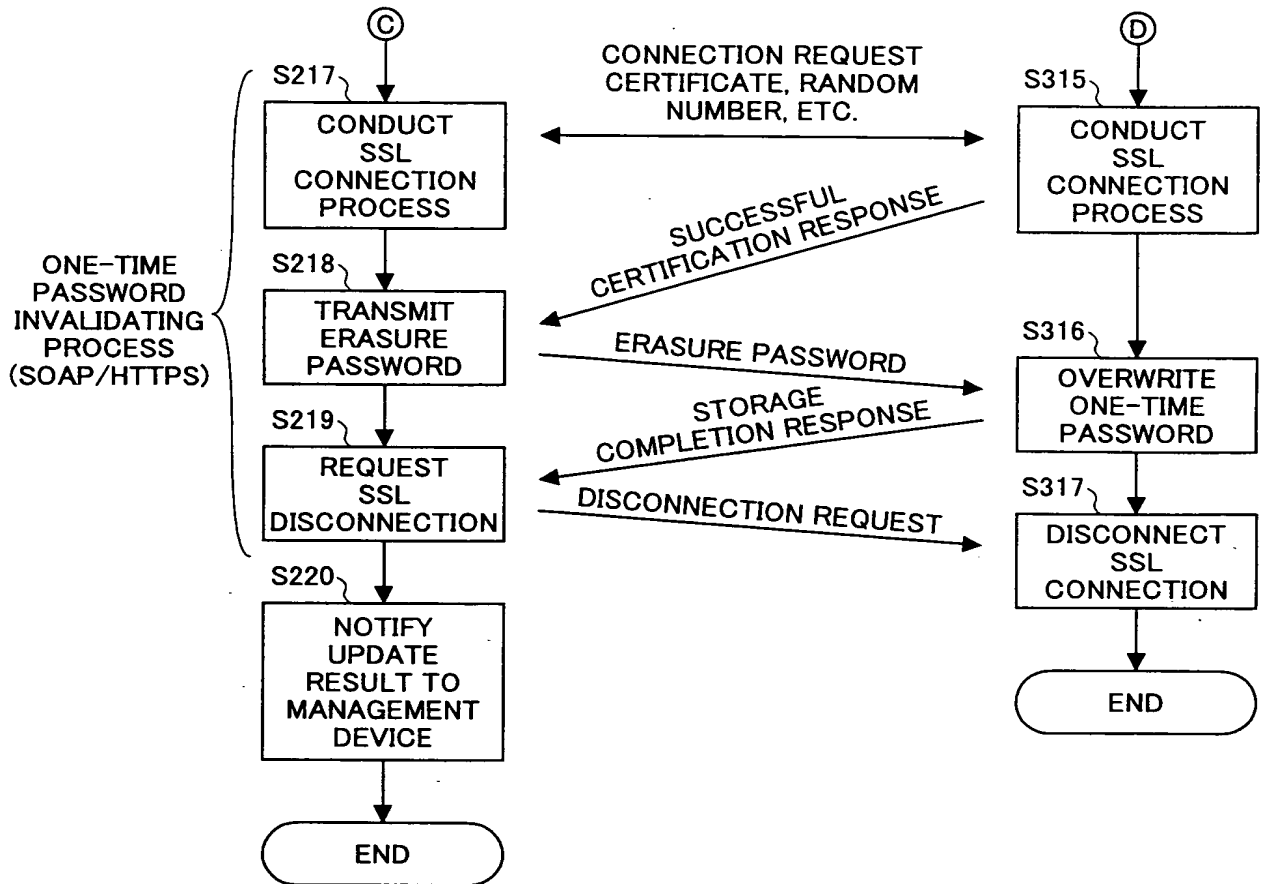
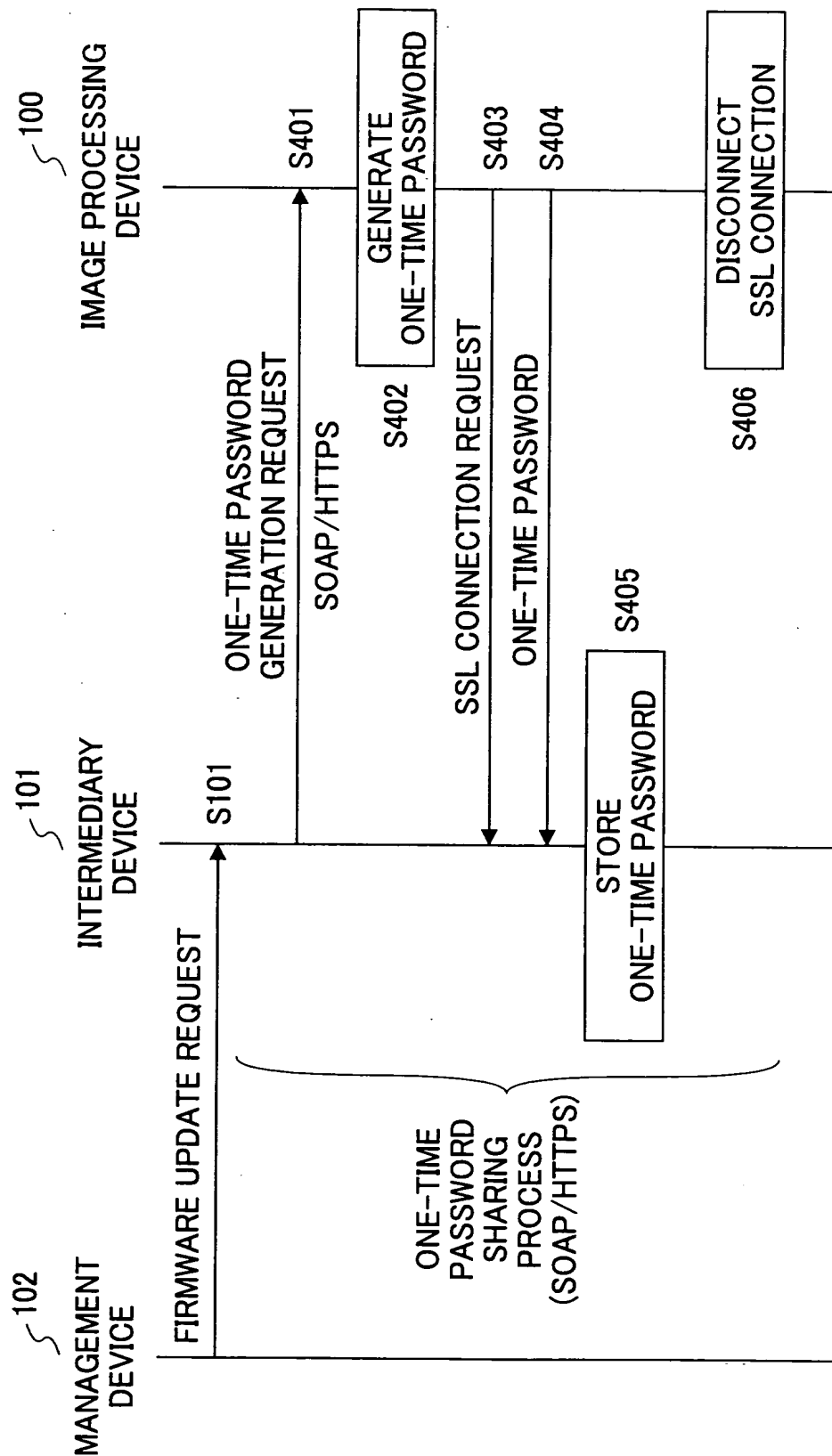


FIG.20



# FIG.21



# FIG.22

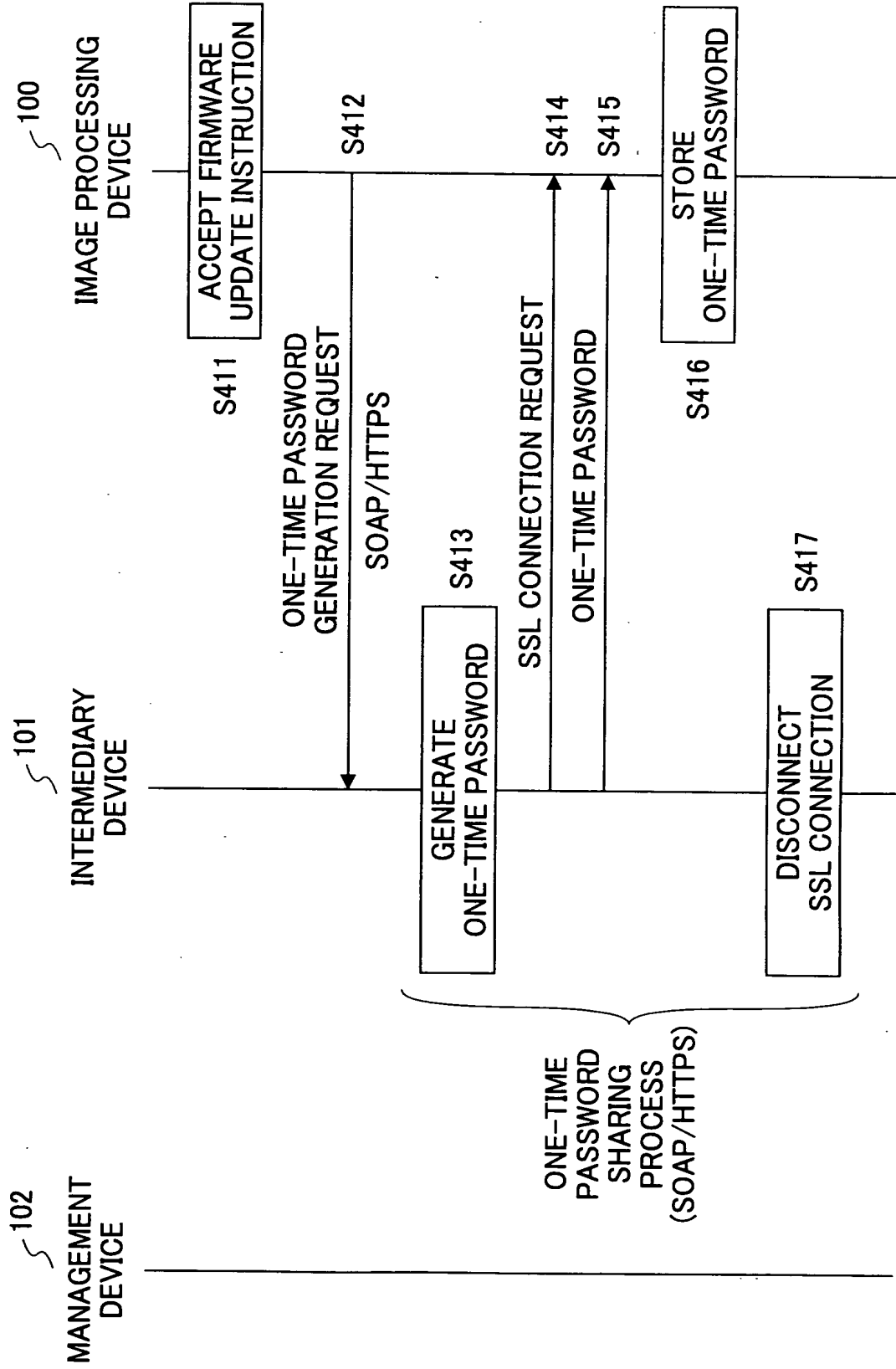
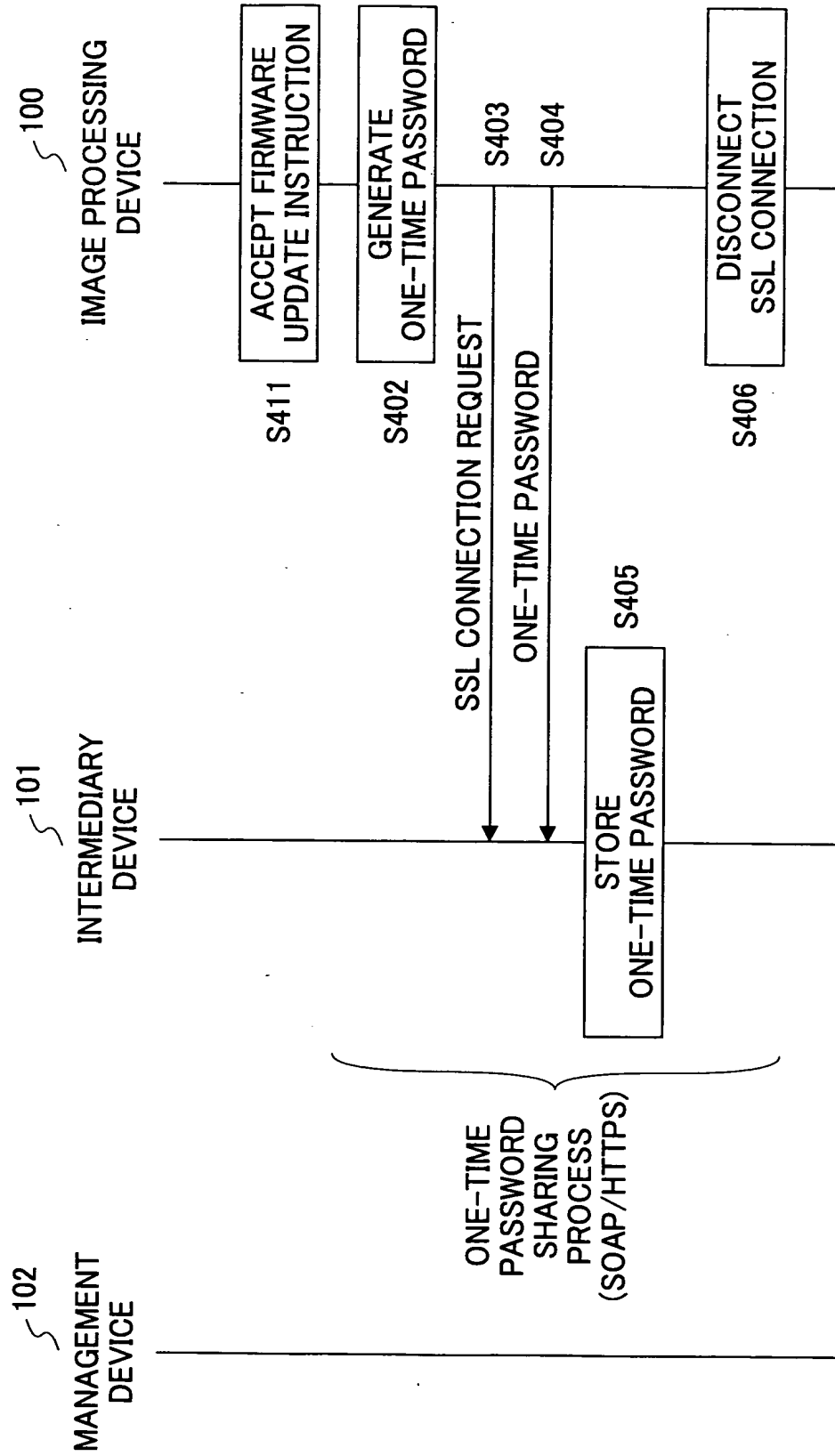


FIG.23



# FIG.24

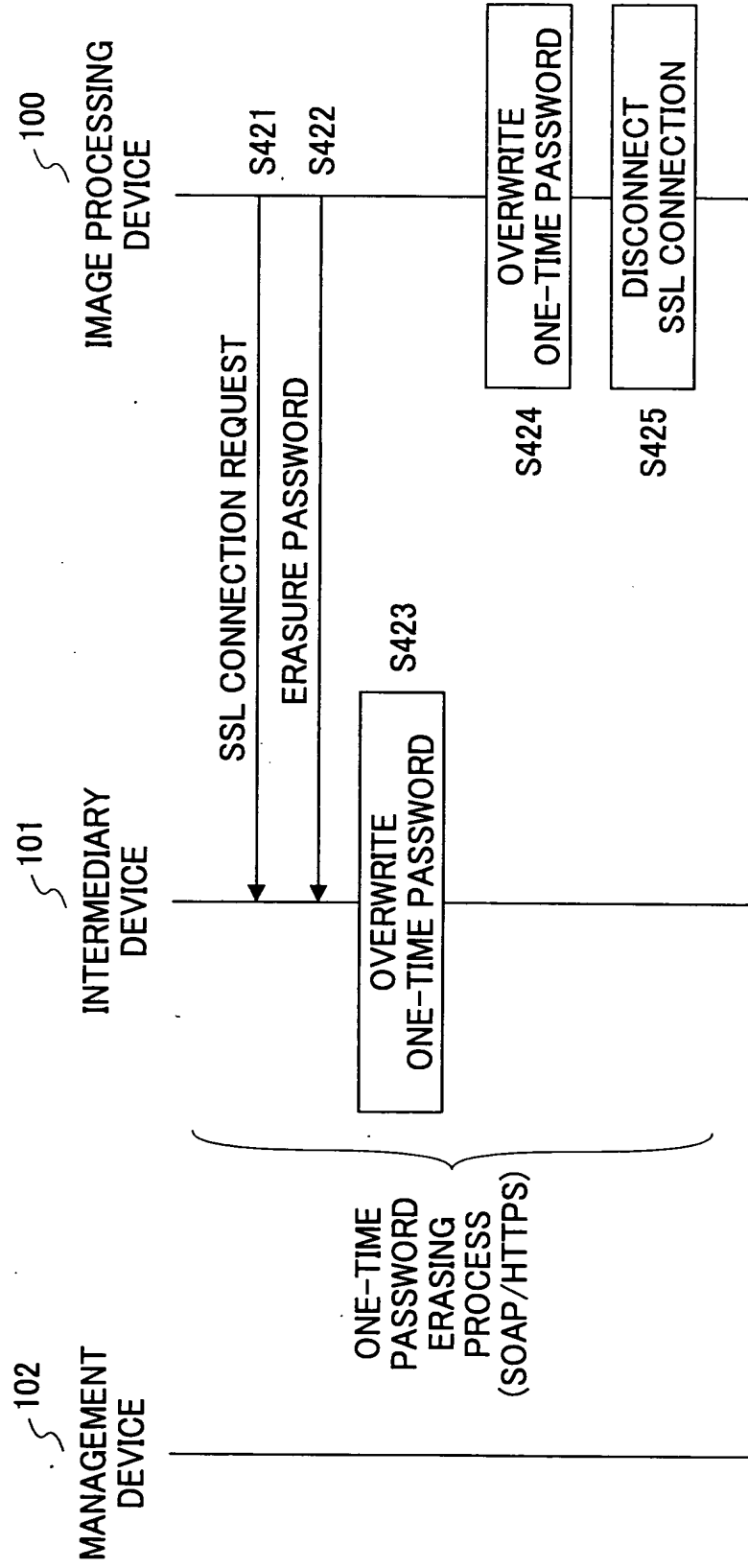




FIG.25

3000

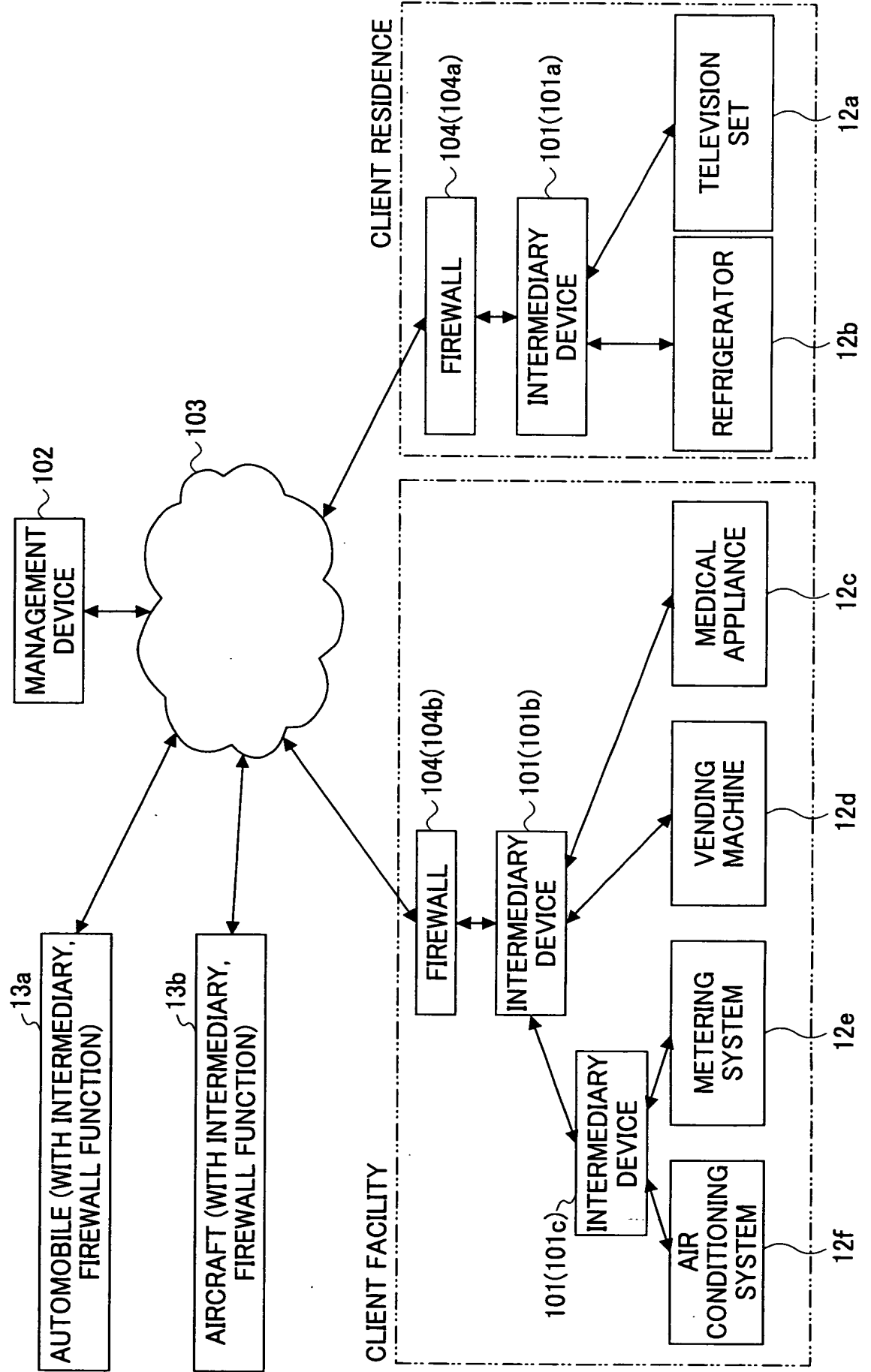


FIG.26

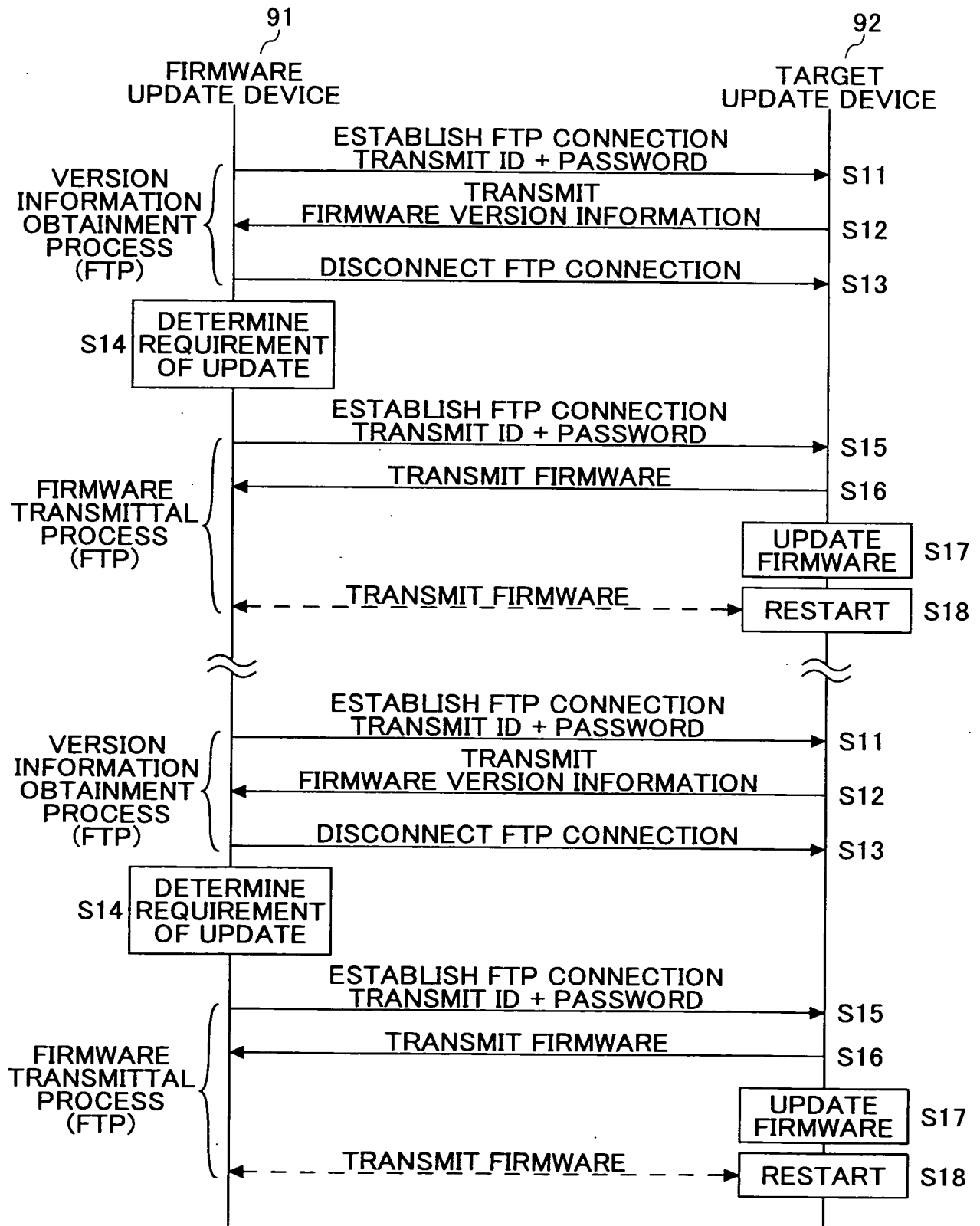


FIG.27

